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**Notes:**

1. Untranslatable words are replaced with asterisks (\*\*\*\*).
2. Texts in the figures are not translated and shown as it is.

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## FULL CONTENTS

### [Claim(s)]

[Claim 1]A melanin generation inhibition material containing a kind chosen from a following vegetable extract and/or sap, or two sorts or more as an active principle.

- (1) The Nerium indicum (Apocynaceae) gay SOSUPERUMAMU group (Geissospermum)
- (2) The Nerium indicum (Apocynaceae) castor seed TANTSUSU group (Himatanthus)
- (3) A department (Eupobiaceae) croton seed group of TOUDA rush (Croton)
- (4) A department (Verbenaceae) Lippia nodiflora group of Verbena officinalis (Lippia)
- (5) A department (Olacaceae) PUDEIKOPETARUMU group of tattered BORONOKI (Ptychopetalum)
- (6) A department (Erythroxylaceae) Erythroxylon coca <>scientific name>> group of the Erythroxylon coca <>scientific name>> (Erythroxylum)
- (7) A department (Celastraceae) HARITSURUMASAKI group of NISHIKIGI (Maytenus)
- (8) A department (Monimiaceae) BEUMUSU group of MONIMIA (Peumus)
- (9) A department (Turneraceae) TSURUNERA group of TSURUNERA (Turnera)
- (10) A pulse family (Leguminosae) KOPAIBARUSAMUNOKI group (Copaifera)
- (11) A pulse family (Leguminosae) tamarind group (Tamarindus)
- (12) A department (Caprifoliaceae) elder group of Japanese honeysuckle (Sambucus)
- (13) A department (Euphorbiaceae) handicap KANSOU group of DOUDA rush (Phyllanthus)
- (14) A department (Myrtaceae) Myrcia group of a rose apple (Myrcia)
- (15) A department (Compositae) BAKARISU group of a chrysanthemum (Baccharis)
- (16) A department (Elaeagnaceae) SANSHI group of an oleaster (\*\*\*\*)

[Claim 2]The Nerium indicum gay SOSUPERUMAMU group Gay SOSUPERUMAMUSERISHIUMU, The Nerium indicum castor seed TANTSUSU group is pull MERIA. Scuba and a department croton seed group of TOUDA rush are croton KAJUKARA. A penny, A department Lippia nodiflora group of Verbena officinalis is RIPPIAARUBA. A department PUDEIKOPETARUMU group of CHAMU and tattered BORONOKI is Ptychopetalum. ORAKOIDO BENSU, A department Erythroxylon coca <>scientific name>> group of the Erythroxylon coca <>scientific name>> is erythro ZAIRUMU. A department HARITSURUMASAKI group of KATOUABA and NISHIKIGI is my TENUUSU. Gouy ANENSHISU, A department PEUMUSU group of MONIMIA is PINEUMUSU. Bolu Dos and a department TSURUNERA group of TSURUNERA Vine NERADIFUSA, A pulse family KOPAIBARUSAMUNOKI group is KOPAI ferra. Langue SUDORIFU and a pulse family tamarind group are tamarind. Indica, A department elder group of Japanese honeysuckle is SAMBUKASU.

Oastler RIACHAMU and a department handicap KANSOU group of DOUDA rush Fin run TASUNIRURI, A department Myrcia group of a rose apple is Myrcia. A department BAKARISU group of a MURUTI flora and a chrysanthemum is BAKKARISU. TURIMERA, the melanin generation inhibition material according to claim 1, wherein a department SANSHI group of an oleaster is Hippophae rhamnoides L.

[Claim 3]Drugs for the skins containing [ Claim 1 or ] a melanin generation inhibition material of a description 2 either.

[Claim 4]Foodstuffs for whitening containing [ Claim 1 or ] a melanin generation inhibition material of a description 2 either.

[Claim 5]A food additive containing [ Claim 1 or ] a melanin generation inhibition material of a description 2 either.

[Claim 6]A quality holding method of foodstuffs immersing applying foodstuffs to liquid containing the melanin generation inhibition material according to claim 1, or making it add and mix with foodstuffs.

[Claim 7]Foodstuffs immersed or applied to liquid containing the melanin generation inhibition material according to claim 1 Shrimps, A quality holding method of the foodstuffs according to claim 6, wherein it is crabs and fruits and foodstuffs which make the melanin generation inhibition material according to claim 1 contain are the wrapping sheets for noodles, bread dough, piecrust, and Chinese meat dumplings.

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## [Detailed Description of the Invention]

### [0001]

[Field of the Invention]The melanin generation inhibition material in which this invention contains a vegetable extract and sap, and the drugs using this, It is involved in the food additive which prevents the development of the brown spot generated in the black discoloration produced during transportation of foodstuffs, a food additive, the drugs and foodstuffs that can reveal whitening effect especially about the quality holding method of foodstuffs, shrimps and crabs, etc., etc., or preservation, the discoloration produced during fruits preservation, noodles, etc., and the quality holding method of foodstuffs.

### [0002]

[Description of the Prior Art]After landing, if shrimps and crabs will pass several days, it will come to discolor them black partially. Especially in the case of the tail of a shrimp, a head, and a crab, it is remarkable in the portion of the root of a nail or a leg, and quality value falls. In order to prevent this phenomenon conventionally, treatment of soaking in sodium sulfite had been made, but in order that avoiding for reasons of sanitation is not only desirable, but use of a chemical composition might cause the fall of the image of goods, development of a natural preservative was desired. If hides (fresh noodles are called hereafter.), such as noodles, bread dough, piecrust, a Chinese meat dumpling, and a steamed meat dumpling, pass after manufacture for several hours, a brown spot will occur and they will become remarkable according to progress of time. In order to prevent this phenomenon conventionally, the antitarnish agent containing RIPOOKISHIDAZE had been used, but that effect was not enough.

Although it was admitted that kojic acid with melanin generation depressant action was effective for these uses, since there was a toxic problem, it could not be used as foodstuffs or a food additive, but development of the substitute was desired strongly.

[0003]Since effect sufficient in the external preparations of the skin is not acquired in order to, remove

the spot and freckle which appear in people's skin on the other hand, alpha-TOKOFENORU which can take in and can obtain advanced whitening effect, vitamin C, cysteine, etc. are used as drugs or a foodstuffs material, but. It cannot be satisfied with the field of stability and an effect of these things, and it was more stable and development of the effective material was desired strongly.

[0004]

[Problem to be solved by the invention]The problem of this invention finds out the natural material which has the melanin generation depressant action which does not have toxicity even if it takes in, The development of discoloration of the black discoloration produced in shrimps and crabs, the brown spot produced in fresh noodles, and fruits can be prevented highly, A food additive without a health top problem and sufficient effect of developing the quality holding method of foodstuffs and preventing the spot of the skin and the development of a freckle rather than external use are acquired, and it is extremely stable, and is developing drugs without a satellite top problem, and foodstuffs.

[0005]The purpose of this invention is to provide the melanin generation inhibition material of the natural material which can control melanin generation, It is in providing the food additive which can prevent the brown spot produced in the discoloration under black change produced in a shrimp and crabs using this, or preservation of fruits, and fresh noodles, the drugs which are in providing a quality holding method, and can prevent the spot and freckle of the skin, and foodstuffs.

[0006]

[Means for solving problem]As mentioned above, although alpha-TOKOFENORU which can take in and can obtain advanced whitening effect, vitamin C, cysteine, etc. were used as drugs or a foodstuffs material, knowledge that the field of stability and an effect is not necessarily enough as these things was acquired. Then, the place wholeheartedly studied about various kinds of extracts and sap from vegetation, Vegetable extracts and sap, such as the Nerium indicum gay SOSUPERUMAMU group, a castor seed TANTSUSU group, a department croton seed group of TOUDA rush, and a department Lippia nodiflora group of Verbena officinalis, find out having an operation of melanin generation inhibition, and came to complete this invention. Namely, a melanin generation inhibition material (1) Nerium indicum (Apocynaceae) gay SOSUPERUMAMU group, wherein this invention contains a kind chosen from a following vegetable extract and/or sap, or two sorts or more as an active principle (Geissospermum)

- (2) Nerium indicum (Apocynaceae) castor seed TANTSUSU group (Himatanthus)
- (3) Department (Eupobiaceae) croton seed group of TOUDA rush (Croton)
- (4) Department (Verbenaceae) Lippia nodiflora group of Verbena officinalis (Lippia)
- (5) Department (Olacaceae) PUDEIKOPETARUMU group of tattered BORONOKI (Ptychopetalum)
- (6) Department (Erythroxylaceae) Erythroxylon coca <>scientific name<> group of the Erythroxylon coca <>scientific name<> (Erythroxylum)
- (7) Department (Celastraseae) HARITSURUMASAKI group of NISHIKIGI (Maytenus)
- (8) Department (Monimiaceae) BEUMUSU group of MONIMIA (Peumus)
- (9) Department (Turneraceae) TSURUNERA group of TSURUNERA (Turnera)
- (10) Pulse family (Leguminosae) KOPAIBARUSAMUNOKI group (Copaifera)
- (11) Pulse family (Leguminosae) tamarind group (Tamarindus)
- (12) Department (Caprifoliaceae) elder group of Japanese honeysuckle (Sambucus)
- (13) Department (Euphorbiaceae) handicap KANSOU group of DOUDA rush (Phyllanthus)
- (14) Department (Myrtaceae) Myrcia group of a rose apple (Myrcia)

(15) Department (Compositae) BAKARISU group of a chrysanthemum (Baccharis)  
 (16) Department (Elaeagnaceae) SANSI group of an oleaster (\*\*\*\*)  
 It comes out, if it is, it is not limited in particular, but (Claim 1) the Nerium indicum gay SOSUPERUMAMU group is gay SOSUPERUMAMU. Auction SHIUMU, In the Nerium indicum castor seed TANTSUSU group, PURUME rear scuba and the department croton seed group of TOUDA rush are crotons. KAJUKARA penny, The department Lippia nodiflora group of Verbena officinalis is RIPPIAARUBA. The department PUDEIKOPETARUMU group of CHAMU and tattered BORONOKI is Ptychopetalum ORAKOIDO. BENSU, The department Erythroxylon coca <> scientific name group of the Erythroxylon coca <> is erythro ZAIRUMU. The department HARITSURUMASAKI group of KATOUABA and NISHIKIGI is my TENUUSU. Gouy ANENSHISU, In the department PEUMUSU group of MONIMIA, the department TSURUNERA group of PINEUMUSUBORUDOSU and TSURUNERA is TSURUNERA. DIFUSA, A pulse family KOPAIBARUSAMUNOKI group is KOPAI ferra. Langue SUDORIFU and a pulse family tamarind group are tamarind. Indica, The department elder group of Japanese honeysuckle is SAMBUKASU. Australia CHAMU and the department handicap KANSOU group of DOUDA rush are fin RANTASU. NIRURI, The department Myrcia group of a rose apple is Myrcia. The department BAKARISU group of a MURUTI flora and a chrysanthemum is BAKKARISU. It is preferred that it is the melanin generation inhibition material (Claim 2) according to claim 1, wherein TURIMERA and the department SANSI group of an oleaster are Hippophae rhamnoides L.

[0007]The drugs for the skins (Claim 3) by which this invention is characterized by Claim 1 or containing the melanin generation inhibition material of a description 2 either, It is related with the foodstuffs for whitening (Claim 4) containing [ Claim 1 or ] the melanin generation inhibition material of a description 2 either, and the food additive (Claim 5) containing [ Claim 1 or ] the melanin generation inhibition material of a description 2 either.

[0008]This invention immerses foodstuffs in the liquid containing the melanin generation inhibition material according to claim 1 again, Or especially if it is a quality holding method (Claim 6) of the foodstuffs applying or making it add and mix with foodstuffs, are not limited, but. The foodstuffs immersed or applied to the liquid containing the melanin generation inhibition material according to claim 1 Shrimps, It is crabs and fruits and the foodstuffs which make the melanin generation inhibition material according to claim 1 contain are related with the quality holding method (Claim 7) of the foodstuffs according to claim 6 being the wrapping sheets for noodles, bread dough, piecrust, and Chinese meat dumplings.

[0009]

[Mode for carrying out the invention]Hereafter, this invention is explained concretely. The vegetation of (1)-(15) used for the extract and/or sap in a melanin generation inhibition material of this invention is vegetation which mainly inhabits South America areas, such as an Amazon, and the vegetation of (16) is vegetation which mainly inhabits eastern part Asia.

[0010](1), [ as vegetation contained in the Nerium indicum gay SOSUPERUMAMU group ] It is gay SOSUPERUMAMU especially preferably. It is auction SHIUMU (a scientific name is Geissospermum sericeum or Geissospermum vellosii), This spot name is PAU PAO PEREIRA, PAU-PEREIRA, CAMARA-DO-MATO, PAU FORQUILHA, PAU PENTA, PINGUACIBA, etc. The bark of this vegetation is brewed and is used as dyspepsia, a \*\*\* agent, and a carminative (Goro Hashimoto work "Brazil industrial use vegetable dictionary" (ABOKKU)).

[0011](2) As vegetation contained in the *Nerium indicum* castor seed TANTSUSU group, it is pull MERIA especially preferably. It is scuba (a scientific name is *Plumeria sucuuba*), and this spot name is SUCUUB, SUCUBA, JANAGUBA, etc. The bark of this vegetation brews a hide to rheumatism, an ointment, gastritis, a cancerous ulcer, etc., and is used for them as species again (Goro Hashimoto work "Brazil industrial use vegetable dictionary" (ABOKKU)).

[0012](3) As vegetation contained in the department croton seed group of TOUDA rush, it is croton KAJUKARA especially preferably. It is BENSU (a scientific name is *Croton cajucara*), and this spot name is SACACA, SACATA, Chio da Silva, Paude-areia, etc. The bark of this vegetation is inoculated for the disease and cholesterol descent use of liver and the kidney, and the leaf is used for diabetes mellitus (Goro Hashimoto work "Brazil industrial use vegetable dictionary" (ABOKKU)).

[0013](4) As vegetation contained in the department *Lippia nodiflora* group of *Verbena officinalis*, it is RIPPIA especially preferably. Alba It is CHAMU (a scientific name is *Lippia alba* Cham), and this spot name is ERVACIDREIRA.

[0014](5), [ as vegetation contained in the department PUDEIKOPETARUMU group of tattered BORONOKI ] It is Ptychopetalum especially preferably. ORAKOIDO It is BENSU (a scientific name is *Ptychopetalum elacoides* Benth), This spot name is MARAPUAMA Muitra Puama, Marapama, Potency Wood, Potenzhols, etc.

[0015](6), [ as vegetation contained in the department *Erythroxylon coca* <<scientific name>> group of the *Erythroxylon coca* <<scientific name>> ] It is erythro ZAIRUMU especially preferably. It is KATOUABA (a scientific name is *Erythroxylum catuaba*), This spot name is CATUABA, Chuchuhauasha, Tatuba, Pau de Reposta, Caramuru, Piratancra, etc.

[0016](7) As vegetation contained in the department HARITSURUMASAKI group of NISHIKIGI, it is my TENUUSU especially preferably. It is gouy ANENSHISU (a scientific name is *Maytenus guianensis*), and this spot name is XIXUA etc.

[0017](8) As vegetation contained in the department BEUMUSU group of MONIMIA, it is PINEUMUSU especially preferably. It is Bolu Dos (a scientific name is *Pemus boldus* Molina), and this spot name is Boldo Do Chile, Bordo, etc.

[0018](9) As vegetation contained in the department TSURUNERA group of TSURUNERA, it is SURUNERADIFUSA (a scientific name is *Turnera diffusa* var.*aphrodisiace* Urban) especially preferably, and this spot name is Damiana.

[0019](10) As vegetation contained in a pulse family KOPAIBARUSAMUNOKI group, it is KOPAI ferra especially preferably. It is langue SUDORIFU (a scientific name is *Copaifera langsdorffii* Desf.), and this spot name is Copaiba etc. As for this vegetation, sap is used preferably.

[0020](11) As vegetation contained in a pulse family tamarind group, it is tamarind especially preferably. It is Indica (a scientific name is *Tamarindus indica* L), and this spot name is TAMARINA, TAMARINDO, etc.

[0021](12) As vegetation contained in the department elder group of Japanese honeysuckle, it is SAMBUKASU especially preferably. Oastler Rith It is CHAMU (a scientific name is *Sambucus australis* Cham), and this spot name is SABUQUCIRO and SUBGUEIRO.

[0022](13), [ as vegetation contained in the department handicap KANSOU group of DOUDA rush ] It is fin RANTASU especially preferably. Are NIRURI (a scientific name is *Phyllanthus niruri*), and, [ this spot name ] QUEBRA PEDRA, Chanca piedra, Pitirishi, Stone Breaker, Shatter Stone, Sasha foster, Seed on the Leaf, Derriere Dos, Des Dos, They are Feutles La Fievre, Quinina Criolla, Dukonganak,

Memeniran, Meniran, Rami Buah, Tamalaka, Turi hutan, etc.

[0023](14) As vegetation contained in the department Myrcia group of a rose apple, it is Myrcia especially preferably. It is a MURUTI flora (a scientific name is Myrcia multiflora), and this spot name is Pedra Huma Cas and BEDORA. It is DEUMEKA.

[0024](15) As vegetation contained in the department BAKARISU group of a chrysanthemum, it is BAKKA list RIMERA (a scientific name is Baccharis trimera) especially preferably, and this spot name is Carquejol and cull KEJO.

[0025](16) As vegetation contained in the department SANSHI group of an oleaster, it is Hippophae rhamnoides L. (a scientific name is Hippophae rhamnoides L.) especially preferably, and this spot name is \*\*\*\*\* and \*\*\*\*. This vegetation has the report of being effective in a gastroenteric disorder, and is used as a medicine by Tibet or Mongolian.

[0026]The extract used for the melanin generation inhibition material of this invention is extracted from what dried the leaf of each of above-mentioned vegetation, a branch, a trunk, a bark, a flower, a root, and fruits using an extracting solvent. The sap used for this invention is directly extracted by making a cut in the trunk and branch of each vegetation. In particular, the extract or sap from a leaf, a branch, a trunk, and a bark is preferred. using suitable various solvents, for example, although the extraction method in particular is not limited -- a room temperature or warming -- it is extracted in the bottom.

[0027]As an extracting solvent in extraction treatment, for example Water, methyl alcohol, A kind of nonpolar solvents, such as liquefied polyhydric alcohols, such as low-grade monohydric alcohol, such as ethyl alcohol, glycerol, propylene glycol, 1,3-butylene glycol, and hexane, or two sorts or more can be used. There is the method of filtering, after extracting for one to five days at a room temperature using methyl alcohol with a hydrous concentration of 0 to 100 volume %, ethyl alcohol, and hexane as an example of a desirable extraction method. It is independently good also as a melanin generation inhibition material in the extract from the above-mentioned vegetation, and sap, or it is good also as a melanin generation inhibition material to mix sap with an extract. The thing which mixed these extracts and sap with the solvent if needed, and was made into mixed liquor, or the thing mixed with the substance which has other melanin generation depressant action can also be used as melanin generation inhibition material.

[0028]The drugs for the skins of this invention contain the above-mentioned melanin generation inhibition material. It may mix with the drugs which have other skin improvement operations as drugs for the skins. They are used carrying out oral ingestion of the drugs for the skins. It can choose suitably, for example, intake is pull MERIA. A scuba extract, gay SOSUPERUMAMU The auction SHIUMU extract can obtain whitening effect, if a day will be taken in during January in 15mg /. The foodstuffs for whitening of this invention contain the above-mentioned melanin generation inhibition material. It can mix with the foods etc. which have other melanin generation inhibition foodstuffs and anti-radical activity, and the foodstuffs for whitening can be applied to a drink and dry food. The foodstuffs for whitening are pull MERIA in the foodstuffs which have other melanin generation depressant action, for example. A scuba extract, gay SOSUPERUMAMU The auction SHIUMU extract can obtain whitening effect, if a day will be taken in during January in 15mg /.

[0029]The food additive of this invention contains a melanin generation inhibition material. The food additive can add, mix or permeate foodstuffs, can prevent discoloration of foodstuffs, and can acquire the quality maintenance effect. It mixes with food additives, such as other preservatives and an antioxidant, etc., mixes with fluids, such as water also as a solid food additive, and ethanol, and a food

additive is good also as a liquid food additive. The amount of addition can be suitably chosen with the target foodstuffs. Although not restricted especially as object foodstuffs of a food additive, [ as an object with which a food additive is made to add and mix ] The wrapping sheet for Chinese meat dumplings, such as noodles, bread dough, piecrust, a Chinese meat dumpling, a steamed meat dumpling, an egg roll, etc. are mentioned, and fruits, vegetables, shrimps, and crabs are mentioned as an object a food additive is made to permeate.

[0030]The quality holding method of the foodstuffs of this invention immerses or applies foodstuffs to the above-mentioned food additive, or makes the above-mentioned food additive add and mix with foodstuffs. By making a plant extract or sap into a dry solid, the thing which made 0.00001-20 mass % contain is preferred, and is 0.0001 -10 mass % more preferably, and the liquid which immerses or applies foodstuffs can make water etc. able to mix these, and can be used as immersion fluid and coating liquid. If it is this within the limits, the melanin generation inhibition effect which eliminates discoloration and the development of a brown spot can be demonstrated without impairing the flavor of foodstuffs. The range of immersion time is 30 seconds - 120 hours preferably, and it is 1 to 24 hours preferably. If it is this within the limits, a discoloration preventive effect can be demonstrated without spoiling the flavor and nutritive value of foodstuffs. Although the foodstuffs in particular used as the object made to permeate are not restricted, fruits, vegetables, shrimps, and crabs are mentioned. The method of adding and mixing a food additive and carrying out quality maintenance can be chosen suitably if needed, and the development of a brown spot can be prevented by making it add and mix before and after 0.05 - 0.15 mass % as a dry solid of a plant extract to the foodstuffs to add. Although not restricted especially as an object made to add and mix, hides, such as noodles, bread dough, piecrust, a Chinese meat dumpling, and a steamed meat dumpling, etc. can be mentioned.

[0031]

[Working example]Although an working example is hung up over below and this invention is explained to it still more concretely, the scope of this invention is not limited to these working examples.

1. After adding 400 g of 50% of ethanol mass aqueous solutions to the dry matter 40g of \*\*\*\*\* beating of the melanin generation inhibition material in this invention or the branch of each grinding-sized vegetation, the trunk, and the bark and neglecting it for three days after churning at first for about 2 hours, it filtered and each plant extract was obtained. The dry solid of these extracts is shown in Table 1.

[0032]

[Table 1]

植物名	乾燥固形分(%)
(1) ゲイソスペルマム セリシウム抽出物	2.8
(2) プルメリア スキューバ抽出物	1.9
(3) クロトン カジュカラ抽出物	1.2
(4) リッピア アルバ チャム抽出物	4.2
(5) ブティコペタルム オラコイド ベンス抽出物	3.3
(6) エリスロザイルム カトウアーバ抽出物	14.0
(7) マイテヌス グイアネンシス抽出物	1.3
(8) ピネウムス ボルドス抽出物	6.7
(9) ツルネラ ディフサ抽出物	21.5
(10) コバイフェラ ラングスドリフ抽出物	25.0
(11) タマリンド インディカ抽出物	9.1
(12) サンブカス オーストラリス チャム抽出物	13.4
(13) フィンランタス ニルリ抽出物	8.9
(14) ミルキア ムルティフロオラ抽出物	8.2
(15) バッカリス トゥリメラ抽出物	7.6
(16) サクリュウカ抽出物	15.3

[0033]2., [ shrimp and ten about 30g black discoloration prevention shrimps of crab, and two about 150g crabs ] Gay SOSUPERUMAMU chosen from a saline solution of 2 mass % of the plant extract 300g obtained by the above 1, respectively Auction SHIUMU extract (working example 1), Pull MERIA It was immersed in the scuba extract (working example 2) and the croton KAJUKARA extract (working example 3) for 10 minutes, and after cutting filtrate, it saved at 10 \*\* for three days. Photography was performed after preservation. The working examples 1-3 are shown in drawing 1 - drawing 3 (reference photographs 1-3), respectively. The same operation as the above-mentioned working example 1 was carried out except the shrimp of the same size as the above and the crab having been immersed in the aqueous solution of nitrous acid soda 0.8 mass % as a comparative example (comparative example 1). The same operation as the above-mentioned working example 1 was performed, without making an extract contain the shrimp of the same size as the above, and a crab (comparative example 2). Then, a photograph was taken. The comparative examples 1 and 2 are shown in drawing 4 (reference photograph 4) and drawing 5 (reference photograph 5). Evaluation of the existence of discoloration is shown in Table 2. In Table 2, a color tone with 5 [ comparable as the comparative example 1 ] and 4 show that prevention of black discoloration is clear compared with the comparative example 2.

[0034]

[Table 2]

	植物名	エビでの評価	カニでの評価
実施例1	ゲイソスペルマム セリシウム抽出物	5	5
実施例2	プルメリア スキューバ抽出物	5	4
実施例3	クロトン カジュカラ抽出物	5	4

[0035]Having been an antitarnish agent of the foodstuffs where the plant extract in this invention had a discoloration preventive effect equivalent to nitrous acid soda to shrimps and crabs and which were [ like / it is \*\*\*\*\* and ] extremely excellent from Table 2 was admitted.

[0036]3. It mixed at a rate of the brown point prevention extra-strength flour 100 of fresh noodles, the water 26, the plant extract 6 obtained by the above 1, and the salt 1, and compounded and rolled with the noodles machine after mixing for 8 minutes. The brown point was observed for this after preservation

for three days at 10 \*\*. As a plant extract, it is gay SOSUBERUMAMU. An auction SHIUMU extract (working example 4), pull MERIA A scuba extract (working example 5), croton The KAJUKARA extract (working example 6) was used. A result is shown in Table 3. As a comparative example, the same operation as the above-mentioned working example 4 was carried out except the thing using the ethanol solution 6 of additive-free 50 mass % of a plant extract (comparative example 3). The same operation as the above-mentioned working example 4 was carried out using the additive-free 50 mass % ethanol solution 6 of a plant extract except having added Hy Lepon (end of soybean meal containing RIPOOKISHIDAZE) 0.2 mass % of the existing antitarnish agent (comparative example 4). A result is shown in Table 3.

[0037]

[Table 3]

	植物名	褐色点の数	褐色点の色	生地の色
実施例 4	ゲイソスペルマム セリシウム抽出物	1	薄く目立たない	最も自然
実施例 5	ブルメリア スキューバ抽出物	2	薄く目立ちにくい	自然
実施例 6	クロトン カジュカラ抽出物	1	生地着色	茶色
比較例 3	無添加	3	濃く目立つ	黄色
比較例 4	ハイリボン添加(既存変色防止剤)	3	濃く目立つ	ピンク

[0038]It is gay SOSUBERUMAMU so that clearly from Table 3. An auction SHIUMU extract (working example 4) and pull MERIA The scuba extract (working example 5) showed the maintenance effect of the number of brown points, brown point reduction which was extremely excellent compared with the additive-free thing (comparative example 3) about the concentration and the color of a ground, and tone. Croton It turned out that the number of the brown points of what a ground colors a KAJUKARA extract (working example 6) decreases intentionally. It means that 1 to which having produced much 3 as evaluation of the number of the brown points of Table 3 was shown, and some 2 was accepted was hardly accepted.

[0039]3. Foodstuffs for whitening, dry solid of plant extract obtained by above 1 in 1g, Pull MERIA 15 mg of scuba extracts, gay SOSUPERUMAMU 15 mg of auction SHIUMU extracts, 300 mg of vitamin C, vitamin E 2.5 g, vitamin B2 3 mg, vitamin B6 3 mg, folic acid 0.3 mg, beer yeast 150 mg, excipient The tablet containing 511.2 mg was manufactured and ten test subjects were made to take in a day for one month in 1g /(working example 7). A result is shown in Table 4. As the comparative example 5, it is pull MERIA. A scuba extract and gay SOSUPERUMAMU The tablet of the formula was manufactured like the above-mentioned working example 7, and ten test subjects were made to take in a day for one month in 1g /except an auction SHIUMU extract not being included. A result is shown in Table 4.

[0040]

[Table 4]

	効果が認められた人数	効果が認められなかった人数
実施例 7	8	2
比較例 5	3	7

[0041]It is pull MERIA so that clearly from Table 4. 15 mg of scuba extracts, gay SOSUPERUMAMU Compared with the group (comparative example 5) which took in the tablet in which the group (working example 7) which took in the tablet containing 15 mg of auction SHIUMU extracts does not contain these, skin became white, and the tendency for redness to decrease was accepted.

[0042]

[Effect of the Invention][ by having made the substance obtained from the extract of specific vegetation, and sap by using a \*\*\*\*\* melanin generation inhibition material contain ] Can prevent highly the development of discoloration of the black discoloration produced in shrimps and crabs, the brown spot produced in fresh noodles, and fruits, and discoloration of foodstuffs is eliminated using a food additive without a health top problem, and this, Sufficient effect of being able to hold quality and preventing the spot of the skin and the development of a freckle rather than external use is acquired, it is extremely stable and drugs and foodstuffs without a satellite top problem can be obtained.

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#### [Brief Description of the Drawings]

[Drawing 1]It is a figure showing the discoloration state of the shrimp in the working example 1 of the quality holding method of the foodstuffs of this invention, and a crab.

[Drawing 2]It is a figure showing the discoloration state of the shrimp in the working example 2 of the quality holding method of the foodstuffs of this invention, and a crab.

[Drawing 3]It is a figure showing the discoloration state of the shrimp in the working example 3 of the quality holding method of the foodstuffs of this invention, and a crab.

[Drawing 4]It is a figure showing the discoloration state of the shrimp in the comparative example 1 of the quality holding method of the foodstuffs of this invention, and a crab.

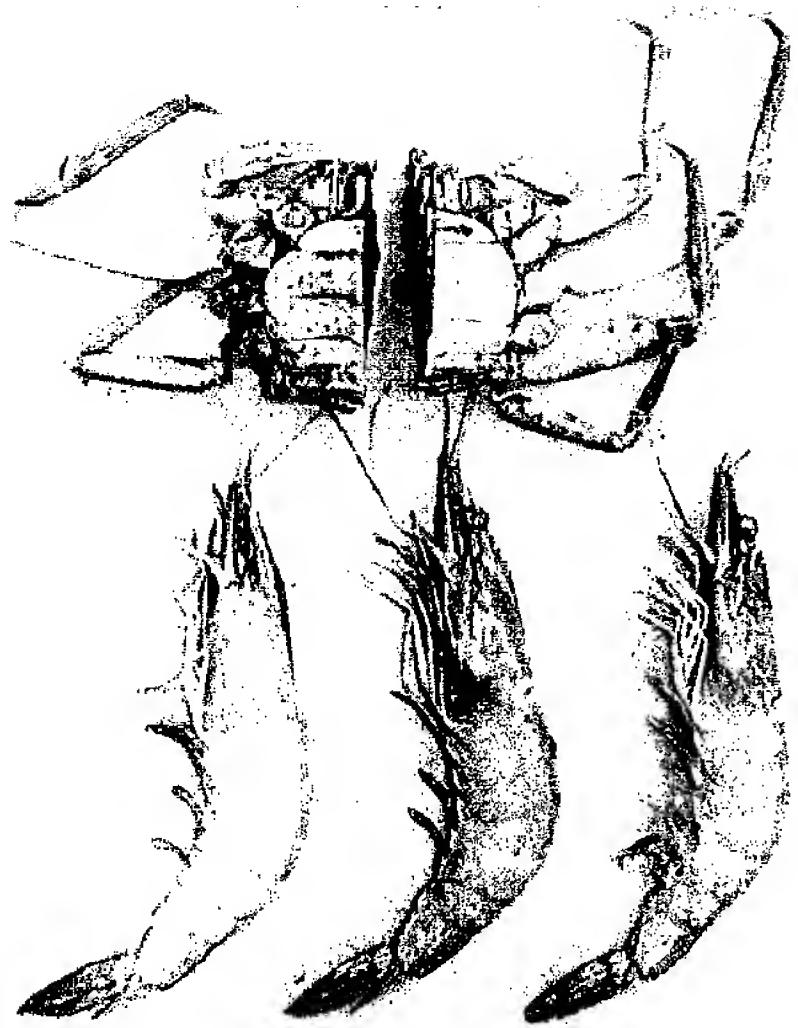
[Drawing 5]It is a figure showing the discoloration state of the shrimp in the comparative example 2 of the quality holding method of the foodstuffs of this invention, and a crab.

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#### [Drawing 1]



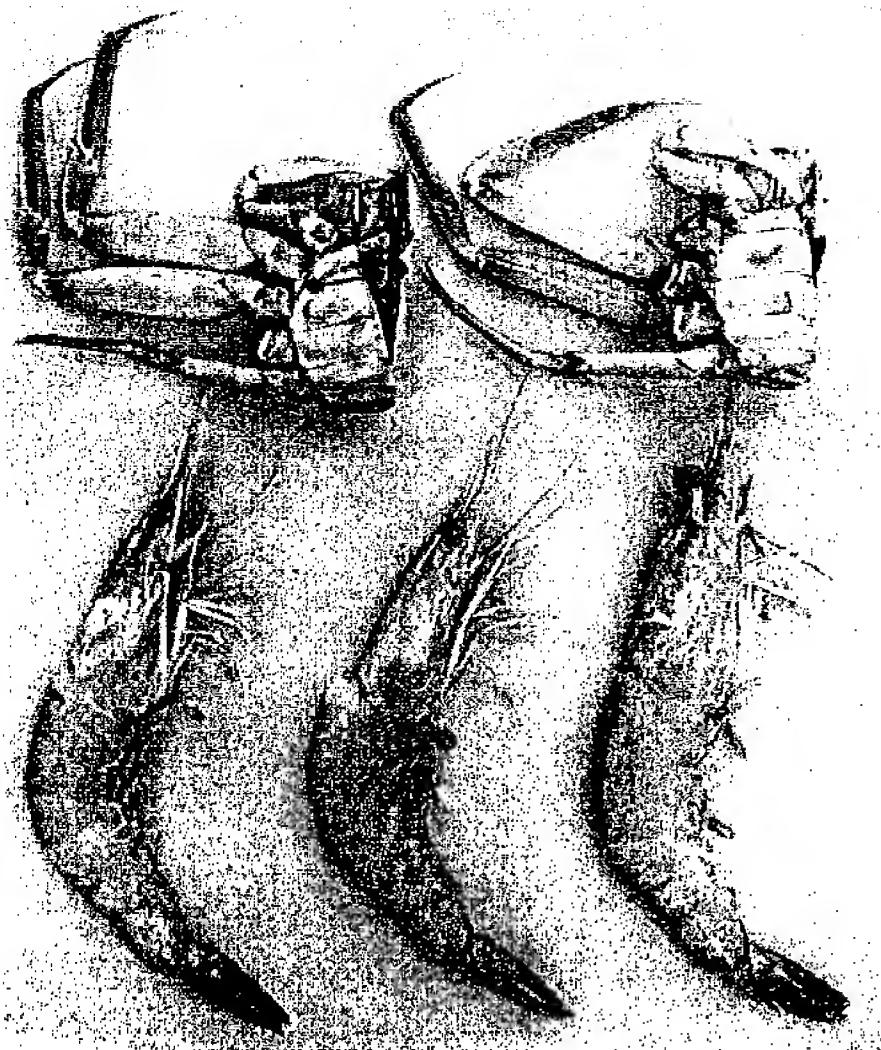
[Drawing 5]



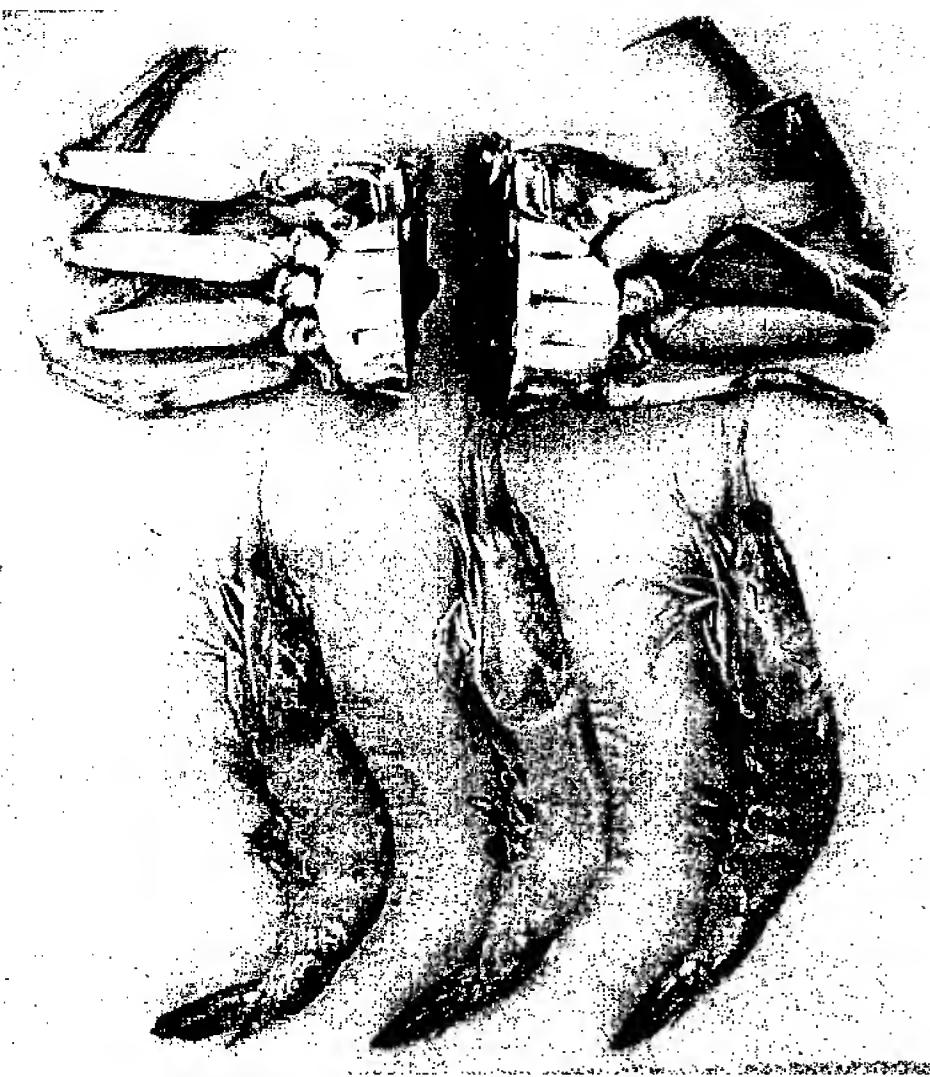
[Drawing 2]



[Drawing 3]



[Drawing 4]



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[Translation done.]